

04/06/2007



SDMS Document ID



1059429

James Lloyd
Environmental Science Specialist
Water Protection Bureau
Montana Department of Environmental Quality
P. O. Box 200901
Helena, Montana 59620-0901

April 6, 2007

Re: Update to Application for Montana Pollutant Discharge Elimination System (MPDES),
Permit No. MT0030147, Asarco East Helena Plant

Dear Mr. Lloyd:

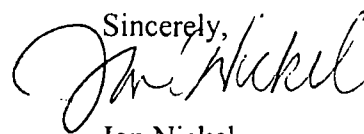
In March 2001, Asarco submitted a Montana Pollutant Discharge Elimination System (MPDES) permit renewal application for the East Helena Plant. Your statements given during the March 8, 2007 Compliance Evaluation Inspection of the East Helena Plant indicated that the Montana Department of Environmental Quality has not take any action on the renewal application. The information contained within the March 2001 renewal application reflected the historic operational status of the East Helena Plant. In April 2001, the East Helena Plant operations were indefinitely suspended. Asarco is updating the March 2001 permit renewal application to reflect the current operational status and condition of the East Helena Plant. The updated information for the East Helena Plant is provided in the following narrative and attached submittals.

1. Asarco maintains two outfalls that are governed by the MPDES program. The discharge from Permit Number MT-0030147 (Outfall 001) is associated with the East Helena Plant's facility operations while the discharge from Permit Number MTR000072 is associated with the East Helena Plant's storm water runoff containment facility. The March 2001 permit renewal application requested that Permit Number MTR000072 be terminated. Asarco herewith withdraws this request. In September 2006, Asarco submitted the necessary MPDES Storm Water renewal application for the East Helena Plant. In November 2006, authorization was granted from the Montana Department of Environmental Quality to discharge under the *General Permit for Storm Water Discharge Associated with Industrial Activity, Authorization MTR000072*. The Permit and the authorization expire on September 30, 2011.
2. In April 2001, the Asarco East Helena Plant operations were indefinitely suspended. The suspended operating status dramatically improved the quality and significantly reduced the quantity of influent to the East Helena Plant water treatment facility. The information presented in this updated application best reflects the operational status during the indefinite suspension, with the exception of the information presented in attached EPA Form 3510-2C, Section V (pages V-1 through V-9).
3. The March 2001 permit renewal application presented both the High Density Sludge (HDS) and High Efficiency Reverse Osmosis (HERO) as viable water treatment process for the East Helena Plant. Based on the improved water quality of influent to the East Helena Plant water treatment

facility, the operation of the HERO system is not necessary to achieve MDEPS permit discharge limits. The HERO system has been removed from the East Helena Plant's water treatment process.

4. With respect to EPA Form 3510-1, Asarco has updated the information previously submitted in March 2001 to reflect the current name of the facility, facility contract information, nature of business, and certification contact.
5. Pursuant to your March 8, 2007 Compliance Evaluation Inspection discussions, the information presented in attached EPA Form 3510-2C, Section V (pages V-1 through V-9) remains identical to the information presented in Asarco's March 2001 permit renewal application. Asarco is relying upon past sampling data for completing EPA Form 3512-2C. The analytical data from which EPA Form 3512-2C was prepared is contained in Asarco's March 2001 permit renewal submittal.
6. The attached water flow diagram has been updated to reflect the current water influents to the East Helena Plant water system and effluent from the East Helena Plant High Density Sludge (HDS) water treatment plant. Although the water flow diagram represents a precise illustration of the current system, the intermittent nature of the influents limit assigning accurate flow rates to the individual sources. The listed individual flow rates are Asarco best estimates. Since the indefinite suspension of the East Helena Plant operations, the effluent flow rate from the HDS water treatment plant averages between 10-15 gpm.
7. The attached site map has been updated to show the locations of the a) Outfall 001, b) Corrective Action Management Unit (CAMU), and c) sampling sites APSD-7, PPC-4, PPC-5, and PPC-6.
8. Asarco herewith reasserts the requests contained in its March 2001 permit renewal application relating to specific monitoring requirements associated with the current permit. First, the weekly HDS water treatment plant effluent monitoring at Outfall 001 should be modified from flow-proportional composite samples to grab samples. Second, the only source of ammonia to the HDS water treatment plant was the effluent from the Asarco East Helena Plant sanitary sewer treatment plant. The Asarco East Helena sanitary sewer treatment plant was shutdown in August 2003. Therefore, the weekly monitoring of ammonia (and associated pH and temperature) during the month of August at sample station PPC-6 should be eliminated. Third, the low flow conditions on Prickly Pear Creek have been verified with over ten years of monitoring. The flow monitoring immediately upstream of sample station PPC-5 should be eliminated.

If you should have any questions presented in this update to Asarco's March 2001 MPDES permit application, please feel free to call me at 227-4529.

Sincerely,

Jon Nickel

Enclosures

EPA Form 3510-1

EPA Form 3510-2C

Location Map

Water Flow Diagram

HDS Water Treatment Plant View

Bcc: Blaine Cox (with all enclosures)
Tom Aldrich (with all enclosures)

FORM <div style="font-size: 2em; font-weight: bold; text-align: center;">1</div> GENERAL	U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION <i>Consolidated Permits Program</i> <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER <div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">T/A</div> <div style="border: 1px solid black; padding: 2px;">C</div> </div> <div style="border: 1px solid black; padding: 2px;"> F <div style="border: 1px solid black; padding: 2px; flex-grow: 1;">MTD006230346</div> <div style="border: 1px solid black; padding: 2px; text-align: right;">D</div> </div> </div>																																																						
LABEL ITEMS <div style="border: 1px solid black; padding: 2px;">I. EPA I.D. NUMBER</div> <div style="border: 1px solid black; padding: 2px;">III. FACILITY NAME</div> <div style="border: 1px solid black; padding: 2px;">V. FACILITY MAILING ADDRESS</div> <div style="border: 1px solid black; padding: 2px;">VI. FACILITY LOCATION</div>		<div style="border: 1px solid black; padding: 2px;"> GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected. </div>																																																						
PLEASE PLACE LABEL IN THIS SPACE																																																								
II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms .																																																								
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(FORM 2C)</td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td>D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td>F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>G. 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15	16	40	51																																																					

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VII. SIC CODES (4-digit, in order of priority)

A. FIRST										B. SECOND									
C	7	3	3	3	9	(specify) Primary Smelting of Non-Ferrous Metals	C	7			(specify)	C	7			(specify)			
15	16	17	18	19		15	16	17	18		15	16	17	18					
C. THIRD										D. FOURTH									
C	7				(specify)	C	7			(specify)	C	7			(specify)				
15	16	17	18	19		15	16	17	18		15	16	17	18					

VIII. OPERATOR INFORMATION

A. NAME																									B. Is the name listed in Item VIII-A also the owner?									
C	8	A	S	A	R	C	O																		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO									
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39										
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)																									D. PHONE (area code & no.)									
F = FEDERAL										M = PUBLIC (other than federal or state)										P = PRIVATE					(specify) P					(specify) A (406) 227-4098				
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39										

E. STREET OR P.O. BOX																									
P. O. Box 1230																									
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

F. CITY OR TOWN															G. STATE		H. ZIP CODE		IX. INDIAN LAND						
East Helena															MT		59635		Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)									
C	9	N								C	9	P							
15	16	17	18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	23	24
MT-0030147										MTR000072									
B. UIC (Underground Injection of Fluids)										E. OTHER (specify)									
C	9	U								C	9								
15	16	17	18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	23	24
										(specify) General Storm Water									
C. RCRA (Hazardous Wastes)										E. OTHER (specify)									
C	9	R								C	9								
15	16	17	18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	23	24
										(specify) Air Quality Permit									

XI. MAP

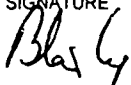
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

The facility operated as a custom primary lead smelter, which processed ore and concentrates. The facility produced lead bullion from a variety of both foreign and domestic concentrates, ores, fluxes, and other non-ferrous materials. The facility also produced co-products, which included sulfuric acid, silver, gold, and copper. In April 2001, the operations of the facility were indefinitely suspended.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)															B. SIGNATURE										C. DATE SIGNED									
Blaine Cox, Plant Manager																									04/ 6/2007									

COMMENTS FOR OFFICIAL USE ONLY																									
C																									
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

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C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ YES (complete the following table)☐ NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		C. DURATION (in days)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
001	Plant Water, including all categories except groundwater capture	7	12	10-15 gpm	110 gpm	7 mgd	160,000 gallons	365
001	Plant Water, including all categories and groundwater capture	7	12	110 gpm	110 gpm	60 mgd	160,000 gallons	365

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ YES (complete Item III-B)☐ NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☒ YES (complete Item III-C)☐ NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	
185	Tons Per Day	Lead Bullion (Year 2000 Production)	001
0	Tons Per Day	Lead Bullion (Year 2006 Production)	001
230	Tons Per Day	93% Sulfuric Acid (Year 2000 Production)	001
0	Tons Per Day	93% Sulfuric Acid (Year 2006 Production)	001

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided.

NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ YES (list all such pollutants below)☐ NO (go to Item VI-B)

Lead - Final Product

Silver, Copper - Byproducts

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (identify the test(s) and describe their purposes below)

☒ NO (go to Section VIII)

No biological testing has occurred within the past nine years at the outfall or receiving water.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?


☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Alpine Analytical, Inc.	1315 Cherry Avenue Helena, Montana 59601	(406) 449-6282	All Permit Parameters
Energy Laboratories, Inc.	3161 E. Lyndale Avenue Helena, Montana 59604	(406) 442-0711	All Permit Parameters

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print) Blaine Cox, Plant Manager	B. PHONE NO. (area code & no.) (406) 227-4098
C. SIGNATURE 	D. DATE SIGNED 04/ 6/2007

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

MTD006230346

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)	OUTFALL NO. 001
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PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
a. Biochemical Oxygen Demand (BOD)	220	147	102	92.1	62.8	43.2	4	ppm	lbs/dy			
b. Chemical Oxygen Demand (COD)	440	297	204	184	132	90.6	4	ppm	lbs/dy			
c. Total Organic Carbon (TOC)	111	74	NA	NA	NA	NA	1	ppm	lbs/dy			
d. Total Suspended Solids (TSS)	4.0	2.7	9.0	8.16	5.3	3.7	52	ppm	lbs/dy			
e. Ammonia (as N)	14.0	9.4	47.0	42.4	21.8	15.0	4	ppm	lbs/dy			
f. Flow	VALUE 55.8		VALUE 92.0		VALUE 57.4		365	gpm	-	VALUE		
g. Temperature (winter)	VALUE 19.0-25.0		VALUE 19.0-25.0		VALUE 19.0-25.0		365	°C		VALUE		
h. Temperature (summer)	VALUE 23.0-28.0		VALUE 23.0-28.0		VALUE 23.0-28.0		365	°C		VALUE		
i. pH	MINIMUM 6.1	MAXIMUM 8.9	MINIMUM 6.1	MAXIMUM 8.9			365+	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
			CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
a. Bromide (24959-67-9)	X		308	206	NA	NA	NA	NA	1	ppm	lb/dy			
b. Chlorine, Total Residual		X	<0.05	0.033	NA	NA	NA	NA	1	ppm	lb/dy			
c. Color	X		45	NA	NA	NA	NA	NA	1	cl. units	-			
d. Fecal Coliform		X	<1.0	NA	NA	NA	NA	NA	1	cl/100ml	-			
e. Fluoride (16984-48-8)	X		15	10	NA	NA	NA	NA	1	ppm	lb/dy			
f. Nitrate-Nitrite (as N)	X		1.1	0.74	NA	NA	NA	NA	1	ppm	lb/dy			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		33	22	NA	NA	NA	NA	1	ppm	lb/dy			
h. Oil and Grease	X		8.6	5.8	NA	NA	NA	NA	1	ppm	lb/dy			
i. Phosphorus (as P), Total (7723-14-0)		X	<0.01	0.067	0.20	0.15	0.08	0.06	4	ppm	lb/dy			
j. Radioactivity														
(1) Alpha, Total		X	<7.3	NA	NA	NA	NA	NA	1	pCi/l	-			
(2) Beta, Total		X	<25.5	NA	NA	NA	NA	NA	1	pCi/l	-			
(3) Radium, Total		X	<1.0	NA	NA	NA	NA	NA	1	pCi/l	-			
(4) Radium 226, Total		X	<0.2	NA	NA	NA	NA	NA	1	pCi/l	-			
k. Sulfate (as SO ₄) (14808-79-8)	X		1900	1272	NA	NA	NA	NA	1	ppm	lb/dy			
l. Sulfide (as S)		X	<0.04	0.027	NA	NA	NA	NA	1	ppm	lb/dy			
m. Sulfite (as SO ₃) (14265-45-3)	X		41	27.5	NA	NA	NA	NA	1	ppm	lb/dy			
n. Surfactants	X		17	11.4	NA	NA	NA	NA	1	ppm	lb/dy			
o. Aluminum, Total (7429-90-5)	X		0.032	0.021	0.72	0.53	0.203	0.139	4	ppm	lb/dy			
p. Barium, Total (7440-39-3)	X		0.10	0.067	NA	NA	NA	NA	1	ppm	lb/dy			
q. Boron, Total (7440-42-8)	X		1.2	0.804	NA	NA	NA	NA	1	ppm	lb/dy			
r. Cobalt, Total (7440-48-4)		X	<0.01	0.0067	NA	NA	NA	NA	1	ppm	lb/dy			
s. Iron, Total (7439-89-6)	X		0.54	0.362	0.49	0.433	0.24	0.17	52	ppm	lb/dy			
t. Magnesium, Total (7439-95-4)	X		1.2	0.804	NA	NA	NA	NA	1	ppm	lb/dy			
u. Molybdenum, Total (7439-98-7)	X		0.034	0.023	NA	NA	NA	NA	1	ppm	lb/dy			
v. Manganese, Total (7439-96-5)		X	<0.01	0.0067	0.016	0.009	0.01	0.007	12	ppm	lb/dy			
w. Tin, Total (7440-31-5)		X	<0.10	0.067	NA	NA	NA	NA	1	ppm	lb/dy			
x. Titanium, Total (7440-32-6)	X		0.16	0.107	NA	NA	NA	NA	1	ppm	lb/dy			

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
MTD006230346	001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS		a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS																
1M. Antimony, Total (7440-38-0)	X	X		2.5	1.7	10.1	8.59	3.72	2.56	52	ppm	1b/day				
2M. Arsenic, Total (7440-38-2)	X	X		0.21	0.141	0.51	0.452	0.121	0.083	52	ppm	1b/day				
3M. Beryllium, Total (7440-41-7)	X		X	<0.005	0.0033	NA	NA	NA	NA	1	ppm	1b/day				
4M. Cadmium, Total (7440-43-9)	X		X	<0.001	0.0007	0.006	0.004	0.001	.0007	52	ppm	1b/day				
5M. Chromium, Total (7440-47-3)	X		X	<0.01	0.007	NA	NA	NA	NA	1	ppm	1b/day				
6M. Copper, Total (7440-50-9)	X	X		0.012	0.008	0.10	0.091	0.037	0.025	52	ppm	1b/day				
7M. Lead, Total (7439-92-1)	X	X		0.063	0.042	0.007	0.005	0.0025	.0017	52	ppm	1b/day				
8M. Mercury, Total (7439-97-6)	X	X		0.0016	0.0011	0.00098	.00082	0.0003	.0002	52	ppm	1b/day				
9M. Nickel, Total (7440-02-0)	X		X	<0.01	0.0067	NA	NA	NA	NA	1	ppm	1b/day				
10M. Selenium, Total (7782-49-2)	X	X		0.85	0.569	2.4	2.11	1.10	0.75	52	ppm	1b/day				
11M. Silver, Total (7440-22-4)	X	X		0.018	0.012	0.005	0.0045	0.005	0.003	4	ppm	1b/day				
12M. Thallium, Total (7440-28-0)	X	X		0.65	0.435	4.1	3.45	1.11	0.76	52	ppm	1b/day				
13M. Zinc, Total (7440-66-6)	X	X		0.022	0.015	0.52	0.283	0.093	0.064	52	ppm	1b/day				
14M. Cyanide, Total (57-12-5)	X		X	<0.008	0.0054	NA	NA	NA	NA	1	ppm	1b/day				
15M. Phenols, Total	X	X		2.5-49.0	NA	NA	NA	NA	NA	2	ppm	-				
DIOXIN																
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)	X		X	DESCRIBE RESULTS												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION - VOLATILE COMPOUNDS																
1V. Acrolein (107-02-8)	X		X													
2V. Acrylonitrile (107-13-1)	X		X													
3V. Benzene (71-43-2)	X		X													
4V. Bis (Chloro- methyl) Ether (542-88-1)	X		X													
5V. Bromoform (75-25-2)	X		X													
6V. Carbon Tetrachloride (56-23-5)	X		X													
7V. Chlorobenzene (108-90-7)	X		X													
8V. Chlorodi- bromomethane (124-48-1)	X		X													
9V. Chloroethane (75-00-3)	X		X													
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	X		X													
11V. Chloroform (67-66-3)	X		X													
12V. Dichloro- bromomethane (75-27-4)	X		X													
13V. Dichloro- difluoromethane (75-71-8)	X		X													
14V. 1,1-Dichloro- ethane (75-34-3)	X		X													
15V. 1,2-Dichloro- ethane (107-06-2)	X		X													
16V. 1,1-Dichloro- ethylene (75-35-4)	X		X													
17V. 1,2-Dichloro- propane (78-87-5)	X		X													
18V. 1,3-Dichloro- propylene (542-75-6)	X		X													
19V. Ethylbenzene (100-41-4)	X		X													
20V. Methyl Bromide (74-83-9)	X		X													
21V. Methyl Chloride (74-87-3)	X		X													

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)																
22V. Methylene Chloride (75-09-2)	X		X													
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X		X													
24V. Tetrachloroethylene (127-18-4)	X		X													
25V. Toluene (108-88-3)	X		X													
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X		X													
27V. 1,1,1-Trichloroethane (71-55-6)	X		X													
28V. 1,1,2-Trichloroethane (79-00-5)	X		X													
29V. Trichloroethylene (79-01-6)	X		X													
30V. Trichlorofluoromethane (75-69-4)	X		X													
31V. Vinyl Chloride (75-01-4)	X		X													
GC/MS FRACTION - ACID COMPOUNDS																
1A. 2-Chlorophenol (95-57-8)	X		X													
2A. 2,4-Dichlorophenol (120-83-2)	X		X													
3A. 2,4-Dimethylphenol (105-67-9)	X	X		106	NA	NA	NA	NA	NA	1	ppb	-				
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X		X													
5A. 2,4-Dinitrophenol (51-28-5)	X		X													
6A. 2-Nitrophenol (88-75-5)	X		X													
7A. 4-Nitrophenol (100-02-7)	X		X													
8A. P-Chloro-M-Cresol (59-50-7)	X		X													
9A. Pentachlorophenol (87-86-5)	X		X													
10A. Phenol (108-95-2)	X	X		2.5-49.0	NA	NA	NA	NA	NA	2	ppm	-				
11A. 2,4,6-Trichlorophenol (88-05-2)	X		X													

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X		X												
2B. Acenaphthylene (208-96-8)	X		X												
3B. Anthracene (120-12-7)	X		X												
4B. Benzidine (92-87-5)	X		X												
5B. Benzo (a) Anthracene (56-55-3)	X		X												
6B. Benzo (a) Pyrene (50-32-8)	X		X												
7B. 3,4-Benzo- fluoranthene (205-99-2)	X		X												
8B. Benzo (ghi) Perylene (191-24-2)	X		X												
9B. Benzo (k) Fluoranthene (207-08-9)	X		X												
10B. Bis (2-Chloro- ethyl) Methane (111-91-1)	X		X												
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)	X		X												
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)	X		X												
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)	X	X		22	NA	NA	NA	NA	NA	1	ppb	-			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X		X												
15B. Butyl Benzyl Phthalate (85-68-7)	X		X												
16B. 2-Chloro- naphthalene (91-58-7)	X		X												
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)	X		X												
18B. Chrysene (218-01-9)	X		X												
19B. Dibenzo (a,h) Anthracene (53-70-3)	X		X												
20B. 1,2-Dichloro- benzene (95-50-1)	X		X												
21B. 1,3-Di-chloro- benzene (541-73-1)	X		X												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)		
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)																
22B. 1,4-Dichloro- benzene (106-46-7)	X		X													
23B. 3,3-Dichloro- benzidine (91-94-1)	X		X													
24B. Diethyl Phthalate (84-66-2)	X		X													
25B. Dimethyl Phthalate (131-11-3)	X		X													
26B. Di-N-Butyl Phthalate (84-74-2)	X		X													
27B. 2,4-Dinitro- toluene (121-14-2)	X		X													
28B. 2,6-Dinitro- toluene (606-20-2)	X		X													
29B. Di-N-Octyl Phthalate (117-84-0)	X		X													
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)	X		X													
31B. Fluoranthene (206-44-0)	X		X													
32B. Fluorene (86-73-7)	X		X													
33B. Hexachloro- benzene (118-74-1)	X		X													
34B. Hexachloro- butadiene (87-68-3)	X		X													
35B. Hexachloro- cyclopentadiene (77-47-4)	X		X													
36B Hexachloro- ethane (67-72-1)	X		X													
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X		X													
38B. Isophorone (78-59-1)	X	X		17	NA	NA	NA	NA	NA	1	ppb	-				
39B. Naphthalene (91-20-3)	X		X													
40B. Nitrobenzene (98-95-3)	X		X													
41B. N-Nitro- sodimethylamine (62-75-9)	X		X													
42B. N-Nitrosodi- N-Propylamine (821-64-7)	X		X													

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES		
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS			
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)																	
43B. N-Nitrosodiphenylamine (86-30-6)	X		X														
44B. Phenanthrene (85-01-8)	X		X														
45B. Pyrene (129-00-0)	X		X														
46B. 1,2,4-Trichlorobenzene (120-82-1)	X		X														
GC/MS FRACTION – PESTICIDES																	
1P. Aldrin (309-00-2)	X		X														
2P. α-BHC (319-84-6)	X		X														
3P. β-BHC (319-85-7)	X		X														
4P. γ-BHC (58-89-9)	X		X														
5P. δ-BHC (319-86-8)	X		X														
6P. Chlordane (57-74-9)	X		X														
7P. 4,4'-DDT (50-29-3)	X		X														
8P. 4,4'-DDE (72-55-9)	X		X														
9P. 4,4'-DDD (72-54-8)	X		X														
10P. Dieldrin (60-57-1)	X		X														
11P. α-Endosulfan (115-29-7)	X		X														
12P. β-Endosulfan (115-29-7)	X		X														
13P. Endosulfan Sulfate (1031-07-8)	X		X														
14P. Endrin (72-20-8)	X		X														
15P. Endrin Aldehyde (7421-93-4)	X		X														
16P. Heptachlor (76-44-8)	X		X														

EPA I.D. NUMBER (copy from Item 1 of Form 1)

OUTFALL NUMBER

MTD006230346

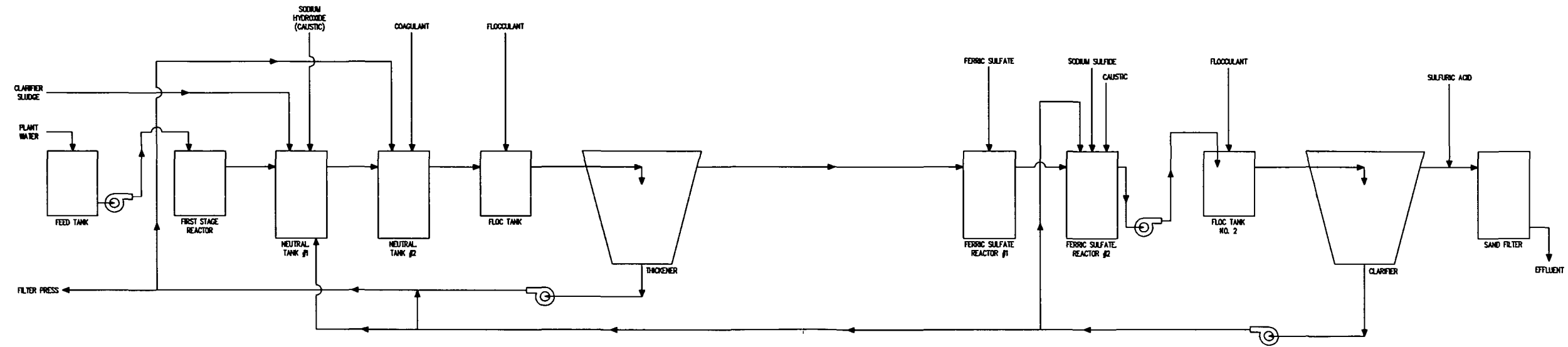
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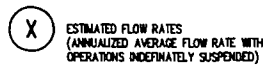
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION - PESTICIDES (continued)																
17P. Heptachlor Epoxide (1024-57-3)	X		X													
18P. PCB-1242 (53469-21-9)	X		X													
19P. PCB-1254 (11097-69-1)	X		X													
20P. PCB-1221 (11104-28-2)	X		X													
21P. PCB-1232 (11141-16-5)	X		X													
22P. PCB-1248 (12672-29-6)	X		X													
23P. PCB-1260 (11096-82-5)	X		X													
24P. PCB-1016 (12674-11-2)	X		X													
25P. Toxaphene (80J1-35-2)	X		X													



HDS WATER TREATMENT PLANT CURRENT SYSTEM



										<div>This drawing contains information proprietary to ASARCO Incorporated and is furnished with the enclosed understanding that it will not be reproduced, used for any purpose other than that for which it was specifically furnished, nor disclosed in whole or in part to any third party without the prior written approval of ASARCO Incorporated.</div>										<div>PRELIMINARY</div> <div>REVISED-DESTROY PREVIOUS ISSUE</div> <div>RELEASED FOR CONSTRUCTION</div> <div>ISSUED BY</div> <div>DATE</div>			<div>SCALE NONE</div> <div>DRAWN BY LT 4/5/07</div> <div>CHECKED BY</div> <div>APPROVED</div>			<div>ASARCO Incorporated</div> <div>EAST HELENA PLANT</div> <div>EAST HELENA MONTANA, 59635</div> <div>WDS WATER TREATMENT PLANT</div> <div>CURRENT SYSTEM</div>			<div>N.E. APPROP. NO.</div> <div>PLANT NO.</div>		<div>ASARCO</div> <div>DRAWING NUMBER</div> <div>80-1-10044</div>		<div>REV.</div> <div></div>	
DWG. NO.		TITLE		DWG. NO.		TITLE		NO.		BY		DATE		DESCRIPTION		NO.		BY		DATE		DESCRIPTION												
		DRAWING REFERENCE LIST																																



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<p>DWG. NO. TITLE</p>				<p>NO. BY DATE DESCRIPTION</p>		<p>REVISOR</p>		<p>DRAWN BY DRT 9/30/98</p>		<p>EAST HELENA MONTANA, 58035</p>	
<p>DWG. NO. TITLE</p>				<p>NO. BY DATE DESCRIPTION</p>		<p>CHECKED BY</p>		<p>WATER FLOW DIAGRAM</p>		<p>ASARCO</p>	
<p>SK3-1-91 WATER FLOW DIAGRAM DGS</p>				<p>LT 3-20-07 UPDATED PROCESS</p>		<p>RELEASED FOR CONSTRUCTION</p>		<p>PLANT WATER BALANCE STUDY</p>		<p>DRAWING NUMBER</p>	
<p></p>				<p>RLK 3-16-01 ADDED HERO PLANT</p>		<p>ISSUED BY</p>		<p>WATER GAINS TO SYSTEM</p>		<p>80-1-10043</p>	
<p></p>				<p>DRT 10/14/98 GENERAL NOTES MODIFICATION</p>		<p>DATE</p>		<p></p>		<p>REV.</p>	
<p></p>				<p></p>		<p></p>		<p></p>		<p>3</p>	